

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K6/027 C03C13/00 C03C13/04 C03C21/00 A61K6/083

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | EP 0 102 199 A (JOHNSON & JOHNSON DENTAL PROD) 7 March 1984 (1984-03-07) cited in the application page 6, line 9 - page 9, line 35 claims | 1-18 |
| A | ----- US 4 376 835 A (GASSER OSWALD ET AL) 15 March 1983 (1983-03-15) cited in the application column 4, line 30 - column 5, line 16 claims | 1-18 |
| A | & EP 0 023 013 A 28 January 1981 (1981-01-28) cited in the application ----- -/-- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

12 April 2005

Date of mailing of the international search report

25/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Thornton, S

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | WO 96/29283 A (PPG INDUSTRIES INC) 26 September 1996 (1996-09-26) page 11, line 17 - page 13, line 10 page 15, line 28 - page 16, line 20 examples 1,2 claims ----- | 1-18 |
| A | US 4 900 697 A (AKAHANE SHOJI ET AL) 13 February 1990 (1990-02-13) column 3, line 56 - column 5, line 42 column 7, line 3 - line 30 claims ----- | 1-18 |
| A | US 5 147 904 A (GUGGENBERGER RAINER ET AL) 15 September 1992 (1992-09-15) column 5, line 4 - column 6, line 7 ----- | 1-18 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/014614

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| EP 0102199 | A | 07-03-1984 | AT 25333 T | 15-02-1987 |
| | | | AU 559750 B2 | 19-03-1987 |
| | | | AU 1749283 A | 09-02-1984 |
| | | | BR 8304116 A | 07-03-1984 |
| | | | DE 3369638 D1 | 12-03-1987 |
| | | | DK 351183 A ,B, | 03-02-1984 |
| | | | EP 0102199 A2 | 07-03-1984 |
| | | | ES 8602392 A1 | 16-03-1986 |
| | | | FI 832767 A ,B, | 03-02-1984 |
| | | | GR 79365 A1 | 22-10-1984 |
| | | | IE 55586 B1 | 07-11-1990 |
| | | | JP 1739717 C | 15-03-1993 |
| | | | JP 4025246 B | 30-04-1992 |
| | | | JP 59044304 A | 12-03-1984 |
| | | | MX 157449 A | 18-11-1988 |
| | | | NO 832781 A ,B, | 03-02-1984 |
| | | | NZ 204975 A | 11-10-1985 |
| | | | PT 77145 A ,B | 01-09-1983 |
| | | | US 4500657 A | 19-02-1985 |
| | | | ZA 8305621 A | 27-03-1985 |
| US 4376835 | A | 15-03-1983 | DE 2929121 A1 | 12-02-1981 |
| | | | AT 1336 T | 15-07-1982 |
| | | | AU 534012 B2 | 22-12-1983 |
| | | | AU 6061180 A | 22-01-1981 |
| | | | CA 1156679 A1 | 08-11-1983 |
| | | | DE 3060667 D1 | 02-09-1982 |
| | | | EP 0023013 A2 | 28-01-1981 |
| | | | JP 1229597 C | 19-09-1984 |
| | | | JP 56017943 A | 20-02-1981 |
| | | | JP 59005536 B | 06-02-1984 |
| | | | JP 1622085 C | 09-10-1991 |
| | | | JP 2039465 B | 05-09-1990 |
| | | | JP 59010872 A | 20-01-1984 |
| EP 0023013 | A | 28-01-1981 | DE 2929121 A1 | 12-02-1981 |
| | | | AT 1336 T | 15-07-1982 |
| | | | AU 534012 B2 | 22-12-1983 |
| | | | AU 6061180 A | 22-01-1981 |
| | | | CA 1156679 A1 | 08-11-1983 |
| | | | DE 3060667 D1 | 02-09-1982 |
| | | | EP 0023013 A2 | 28-01-1981 |
| | | | JP 1229597 C | 19-09-1984 |
| | | | JP 56017943 A | 20-02-1981 |
| | | | JP 59005536 B | 06-02-1984 |
| | | | JP 1622085 C | 09-10-1991 |
| | | | JP 2039465 B | 05-09-1990 |
| | | | JP 59010872 A | 20-01-1984 |
| | | | US 4376835 A | 15-03-1983 |
| WO 9629283 | A | 26-09-1996 | US 5747003 A | 05-05-1998 |
| | | | AU 5308896 A | 08-10-1996 |
| | | | CN 1184456 A ,C | 10-06-1998 |
| | | | IL 117544 A | 29-06-2000 |
| | | | TW 402504 B | 21-08-2000 |
| | | | WO 9629283 A1 | 26-09-1996 |
| US 4900697 | A | 13-02-1990 | JP 7055882 B | 14-06-1995 |

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|---------------------|
| US 4900697 | A | JP 63201038 A | 19-08-1988 |
| | | AU 604835 B2 | 03-01-1991 |
| | | AU 1142988 A | 18-08-1988 |
| | | BE 1002180 A3 | 02-10-1990 |
| | | CA 1292017 C | 12-11-1991 |
| | | CH 675682 A5 | 31-10-1990 |
| | | DE 3804469 A1 | 25-08-1988 |
| | | FR 2610916 A1 | 19-08-1988 |
| | | GB 2202221 A , B | 21-09-1988 |
| | | SE 470154 B | 22-11-1993 |
| | | SE 8800483 A | 14-08-1988 |
| US 5147904 | A 15-09-1992 | DE 59003318 D1 | 09-12-1993 |
| | | EP 0414252 A2 | 27-02-1991 |
| | | JP 3115181 A | 16-05-1991 |